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That Which Is Claimed Is:

1. A compound of the formula:

where X is carbon nitrogen bonded to a substituent species characterized as having a sigma m value greater than 0 or less than 0; X' is nitrogen characterized as having a sigma m valve greater than 0 or less than 0; A, A' and A" individually are substituent species characterized as having a sigma m value greater than 0, less than 0 or 0; m is an integer and n is an integer such that the sum of m plus n is 1, 2, 3, 4, 5, 6, 7, or 8; E^I, E^{II}, E^{IV}, E^V and E^{VI} individually represent hydrogen, lower alkyl or halo substituted lower alkyl, such that at least one of E^I, E^{II}, E^{IV}, E^V and E^{VI} is not hydrogen; Z' and Z" individually are hydrogen or lower alkyl; and the wavy line in the structure indicates that the compound can have a cis (Z) or trans (E) form.

- 2. The method of Claim 1 whereby the compound has the trans (E) form.
- 3. The compound of Claim 1 wherein A is hydrogen.
- 4. The compound of Claim 1 wherein A, A' and A" are all hydrogen.
- 5. The compound of Claim 1 wherein 1 or 2 of the substituents designated as E^I, E^{II}, E^{IV}, E^V and E^{VI} are non-hydrogen substituents.
- 6. The compound of Claim 1 wherein m plus n is 2 or 3.
- 7. The compound of Claim 1 wherein at least one of Δ' and Z'' are hydrogen.

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- 9. The compound of Claim 1 selected from the group consisting of (4E)-N-methyl-5-(3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-pyrimidinyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-methoxy-3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(6-amino-5-methyl-3-pyridyl)-4-penten-2-amine, (2R)-(4E)-N-methyl-5-(3-pyridyl)-4-penten-2-amine, (2R)-(4E)-N-methyl-5-(5-isopropoxy-3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-bromo-3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-ethoxy-3-pyridyl)-4-penten-2-amine, (2S)-(4E)-N-methyl-5-(3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-isopropoxy-3-pyridyl)-4-penten-2-amine, and (2S)-(4E)-N-methyl-5-(5-isopropoxy-3-pyridyl)-4-penten-2-amine.
- 10. A compound of the formula:

where X and X' are individually nitrogen or carbon bonded to a substituent species characterized as having a sigma m value greater than 0, less than 0 or 0; A, A' and A" individually are substituent species characterized as having a sigma m value greater than 0, less than 0 or 0; m is an integer and n is an integer such that the sum of m plus n is 1, 2, 3, 4, 5, 6, 7, or 8; E^I, E^{II}, E^{IV}, E^V and E^{VI} individually represent hydrogen, lower alkyl or halo substituted lower alkyl, such that at least one of E^I, E^{II}, E^{IV}, E^V and E^{VI} is not hydrogen and with the proviso that E^{III}, E^{IV}, E^V and E^{VI} are selected to provide a chiral center having an S configuration; Z' and Z" individually are hydrogen or lower alkyl; and the wavy line in the structure indicates that the compound can have a cis (Z) or trans (E) form.

A" X' A E" (CE"E'')_m— (CE'E'')_n \ Z''

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where X and X' are individually nitrogen or carbon bonded to a substituent species characterized as having a sigma m value greater than 0, less than 0 or; A, A' and A" individually are substituent species characterized as having a sigma m value greater than 0, less than 0 or 0; m is an integer and n is an integer such that the sum of m plus n is 1, 2, 3, 4, 5, 6, 7, or 8; E^I, E^{II}, E^{III}, E^{IV}, E^V and E^{VI} individually represent hydrogen, lower alkyl or halo substituted lower alkyl, such that at least one of E^I, E^{II}, E^{III}, E^{IV}, E^V and E^{VI} is not hydrogen and with the proviso that E^{III}, E^{IV}, E^V and E^{VI} are selected to provide a chiral center having a R configuration; Z' and Z" individually are hydrogen or lower alkyl; and the wavy line in the structure indicates that the compound can have a cis (Z) or trans (E) form.

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